

# Breadcrumb

**Breadcrumbs** The `<aava-breadcrumbs>` provides a comprehensive navigation solution for displaying hierarchical navigation paths. It supports icons, collapsible behavior, multiple sizes, custom separators, and responsive design to enhance user navigation experience.

**How to use** ■ Import the component and provide an array of breadcrumb items with their navigation properties.

```
import { AavaBreadcrumbsComponent } from "@aava/play-core";
```

**Basic Usage** ■ Simple breadcrumb navigation with text labels.

Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "simpleBreadcrumbs" ></aava-breadcrumbs> simpleBreadcrumbs : BreadcrumbItem[] = [{ label: 'Home', url: '/home', active: false }, { label: 'Category', url: '/category', active: false }, { label: 'Product', url: '/product', active: true }, ]
```

**With Icons** ■ Breadcrumbs with icons for enhanced visual representation.

Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "mixedBreadcrumbs" ></aava-breadcrumbs> mixedBreadcrumbs : BreadcrumbItem[] = [{ icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'folder', label: 'Category', url: '/category', active: false }, { icon: 'file', label: 'Product', url: '/product', active: true }, ]
```

**Size Variants** ■ Four different size options (xs, sm, md, lg) for various design contexts.

Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "xs" ></aava-breadcrumbs> <aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "sm" ></aava-breadcrumbs> <aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "md" ></aava-breadcrumbs> <aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "lg" ></aava-breadcrumbs>
```

`sampleBreadcrumbs : BreadcrumbItem[] = [{ icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'folder', label: 'Products', url: '/products', active: false }, { icon: 'tag', label: 'Category', url: '/products/category', active: false }, { icon: 'package', label: 'Item Details', url: '/products/category/item', active: true }, ]`

**Collapsible Behavior** ■ Smart collapsing for long navigation paths with ellipsis expansion.

Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "longBreadcrumbs" [collapsible] = "true" [maxVisibleItems] = "5" ></aava-breadcrumbs>
```

`longBreadcrumbs : BreadcrumbItem[] = [{ icon: 'home', label: 'Home', url: '/home', active: false }, { icon: 'building', label: 'Organization', url: '/organization', active: false }, { icon: 'folder', label: 'Projects', url: '/projects', active: false }, { icon: 'folder', label: 'Web Development', url: '/web-dev', active: false }, { icon: 'folder', label: 'Frontend', url: '/frontend', active: false }, { icon: 'folder', label: 'Components', url: '/components', active: false }, { icon: 'package', label: 'Breadcrumbs', url: '/breadcrumbs', active: true }, ]`

**Custom Separator** ■ Customizable separator icons and sizes.

Angular Preview Code

```
Dropdown Breadcrumbs
```

**Interactive breadcrumbs** with dropdown menus for enhanced navigation options.

Angular Preview Code

```
Features
```

**Hierarchical Navigation** ■ Display navigation paths with clear hierarchy

**Support for unlimited breadcrumb levels**

**Automatic active state management**

**Icon Support** ■ Optional icons for each breadcrumb item

**Consistent icon sizing and coloring**

**Icon-text alignment and spacing**

**Collapsible Behavior** ■ Smart collapsing for long navigation paths

**Ellipsis expansion on click**

**Configurable maximum visible items**

**Maintains navigation context**

**Size Variants** ■ Four size options: extra small (xs), small (sm), medium (md), and large (lg)

**Consistent typography and spacing across all sizes**

**Responsive sizing behavior with appropriate icon scaling**

**Custom Separators** ■ Configurable separator icons

**Adjustable separator sizes**

**Consistent styling with breadcrumb items**

**Dropdown Navigation** ■ Interactive dropdown menus for breadcrumb items

**Support for nested navigation options**

**Configurable dropdown styling and positioning**

**Icon support within dropdown items**

**Click-outside to close functionality**

**Accessibility** ■ ARIA attributes for screen readers

**Keyboard navigation support**

**Focus management**

**Semantic HTML structure**

**Responsive Design** ■ Mobile-friendly navigation

**Adaptive collapsing behavior**

**Touch-optimized interactions**

**API Reference**

**Inputs**

**Property Type**

**Default Description**

`breadcrumbs` `BreadcrumbItem[]` Array of breadcrumb items to display

`size` 'sm' | 'md' | 'lg' | 'xs' 'md' Size variant for the breadcrumbs

`separatorIcon` string 'chevron-right' Icon name for breadcrumb separators

`separatorSize` number 14 Size of separator icons in pixels

`dropdownIconSize` number 14 Size of dropdown icons in pixels

`flyoutStyle` Record<string, string> undefined Custom styles for dropdown flyout

`customStyles`

Record<string, string> {} Custom styles for breadcrumb container collapsible boolean true Enable collapsible behavior for long paths maxVisibleItems number 5 Maximum items to show before collapsing Interfaces ■

interface DropdownItem { label : string ; // Dropdown item label url : string ; // Dropdown item URL icon ? : string ; // Optional icon for dropdown item } interface BreadcrumbItem { label ? : string ; // Optional text label icon ? : string ; // Optional icon name url : string ; // Required URL for navigation active : boolean ; // Required active state dropdownItems ? : DropdownItem [ ] ; // Optional dropdown items dropdownWidth ? : number ; // Optional dropdown width } Methods ■ Method Parameters Description onBreadcrumbClick() event: Event, index: number Handle breadcrumb item click and navigation onEllipsisClick() None Expand collapsed breadcrumbs on ellipsis click onBreadcrumbKeydown() event: KeyboardEvent, index: number Handle keyboard navigation getIconColor() isLast: boolean Get appropriate icon color based on state getOriginalIndex() displayedIndex: number Map displayed index to original breadcrumb index Computed Properties ■ Property Type Description displayedBreadcrumbs BreadcrumbItem[] Current breadcrumbs to display (considering collapse) shouldCollapse boolean Whether breadcrumbs should be collapsed shouldShowEllipsis boolean Whether to show ellipsis for collapsed items CSS Custom Properties ■ Container Properties ■ Property Description --breadcrumbs-background Background color of breadcrumb container --breadcrumbs-font Font family and properties for breadcrumb container Item Properties ■ Property Description --breadcrumbs-item-text Text color for breadcrumb items --breadcrumbs-item-border-radius Border radius for breadcrumb items --breadcrumbs-item-transition Transition properties for breadcrumb items --breadcrumbs-item-hover-text Text color on hover --breadcrumbs-item-active-background Background color for active items --breadcrumbs-item-disabled-text Text color for disabled items --breadcrumbs-item-disabled-cursor Cursor for disabled items Current Item Properties ■ Property Description --breadcrumbs-item-current-text Text color for current/active item --breadcrumbs-item-current-font-weight Font weight for current item Size Variants ■ Property Description --breadcrumbs-size-xs-font Font properties for extra small size --breadcrumbs-size-sm-font Font properties for small size --breadcrumbs-size-md-font Font properties for medium size --breadcrumbs-size-lg-font Font properties for large size CSS Classes ■ Container Classes ■ .breadcrumb - Main breadcrumb container .breadcrumb.xs - Extra small size variant .breadcrumb.sm - Small size variant .breadcrumb.md - Medium size variant (default) .breadcrumb.lg - Large size variant Item Classes ■ .breadcrumb-item - Individual breadcrumb item container .breadcrumb-separator - Separator icon styling .breadcrumb-ellipsis - Ellipsis container for collapsed items .ellipsis - Ellipsis text styling .dropdown-container - Container for dropdown breadcrumb items .dropdown-button - Button element for dropdown triggers .dropdown-menu - Dropdown menu container .dropdown-item - Individual dropdown menu items State Classes ■ .active - Active breadcrumb item .inactive - Inactive breadcrumb item .disabled - Disabled breadcrumb item Best Practices ■ Navigation Structure ■ Keep breadcrumb paths logical and intuitive Use descriptive labels that match page titles Ensure URLs are valid and accessible Icon Usage ■ Use consistent icon naming conventions Choose icons that clearly represent navigation levels Maintain icon-text alignment and spacing Dropdown Navigation ■ Use dropdowns for breadcrumb items that have multiple sub-navigation options Provide meaningful labels and icons for dropdown items Configure appropriate dropdown width using dropdownWidth property Use flyoutStyle to customize dropdown appearance and positioning Collapsible Behavior ■ Set appropriate maxVisibleItems based on design context Test collapsing behavior with various path lengths Ensure ellipsis expansion provides meaningful navigation Accessibility ■ Provide meaningful labels for screen readers Test keyboard navigation thoroughly Ensure sufficient color contrast for all states Responsive Design ■ Test breadcrumbs on various screen sizes Consider mobile navigation patterns Optimize touch targets for mobile devices Performance ■ Avoid excessive breadcrumb levels Use efficient navigation logic Optimize icon rendering and caching Use Cases ■ E-commerce Sites ■ Product category navigation Search result breadcrumbs Shopping cart navigation Content Management Systems ■ Document hierarchy navigation Folder structure display Content editing paths Web Applications ■ User dashboard navigation Settings and configuration paths Multi-step form navigation Documentation Sites ■ Documentation hierarchy Search result navigation Related content linking Admin Panels ■ User management navigation System

configuration paths Report and analytics navigation Console Applications ■ Build tool navigation with dropdown options Agent and workflow creation paths Quick access to related creation tools Accessibility ■ ARIA Support ■ Proper aria-current attributes for current page Semantic navigation structure Screen reader friendly labels Keyboard Navigation ■ Tab navigation through breadcrumb items Arrow key navigation between items Enter/Space activation for navigation Focus Management ■ Clear focus indicators Logical tab order Focus restoration after navigation Screen Reader Support ■ Descriptive labels for navigation items Context information for collapsed items Clear indication of current location Responsive Behavior ■ Mobile Optimization ■ Touch-friendly tap targets Optimized spacing for mobile screens Collapsible behavior for limited space Tablet Adaptation ■ Balanced layout for medium screens Appropriate icon and text sizing Maintained navigation context Desktop Enhancement ■ Full navigation path display Hover effects and interactions Enhanced visual hierarchy Browser Support ■ Modern Browsers : Full support for all features CSS Grid/Flexbox : Required for layout ES6+ Features : Required for component functionality Angular Router : Required for navigation functionality

```
<aava-breadcrumbs [breadcrumbs]="simpleBreadcrumbs"></aava-breadcrumbs>
```

```
---
```

```
simpleBreadcrumbs: BreadcrumbItem[] = [
  { label: 'Home', url: '/home', active: false },
  { label: 'Category', url: '/category', active: false },
  { label: 'Product', url: '/product', active: true },
];
```

```
<aava-breadcrumbs [breadcrumbs]="mixedBreadcrumbs"></aava-breadcrumbs>
```

```
---
```

```
mixedBreadcrumbs: BreadcrumbItem[] = [
  { icon: 'home', label: 'Home', url: '/home', active: false },
  { icon: 'folder', label: 'Category', url: '/category', active: false },
  { icon: 'file', label: 'Product', url: '/product', active: true },
];
```

```
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="xs">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="sm">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="md">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="lg">
</aava-breadcrumbs>
```

```
---
```

```
sampleBreadcrumbs: BreadcrumbItem[] = [
  { icon: 'home', label: 'Home', url: '/home', active: false },
  { icon: 'folder', label: 'Products', url: '/products', active: false },
  {
    icon: 'tag',
    label: 'Category',
    url: '/products/category',
    active: false,
  },
  {
    icon: 'package',
    label: 'Item Details',
    url: '/products/category/item',
    active: true,
  },
];
```

```
<aava-breadcrumbs
  [breadcrumbs]="longBreadcrumbs"
  [collapsible]="true"
  [maxVisibleItems]="5"
>
</aava-breadcrumbs>
```

---

```
longBreadcrumbs: BreadcrumbItem[] = [
  {
    icon: 'home', label: 'Home', url: '/home', active: false },
  {
    icon: 'building',
    label: 'Organization',
    url: '/organization',
    active: false,
  },
  {
    icon: 'folder', label: 'Projects', url: '/projects', active: false },
  {
    icon: 'folder',
    label: 'Web Development',
    url: '/web-dev',
    active: false,
  },
  {
    icon: 'folder', label: 'Frontend', url: '/frontend', active: false },
  {
    icon: 'folder', label: 'Components', url: '/components', active: false },
  {
    icon: 'package',
    label: 'Breadcrumbs',
    url: '/breadcrumbs',
    active: true,
  },
];
```

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